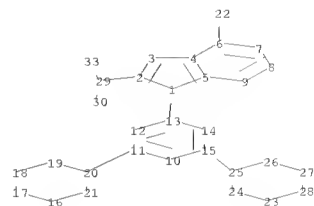
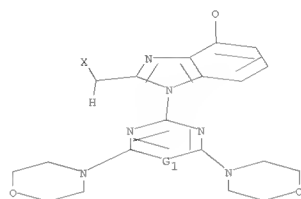


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chain nodes :
22 29 30 33
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 24
25 26 27 28
chain bonds :
1-13 2-29 6-22 11-20 15-25 29-30 29-33
ring bonds :
1-2 1-5 2-3 3-4 4-5 4-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 16-17 16-21 17-18 18-19 19-20 20-21 23-24 23-28 24-25 25-26 26-27
27-28
exact/norm bonds :
1-2 1-5 1-13 2-3 2-29 3-4 6-22 10-11 10-15 11-12 11-20 12-13 13-14
14-15 15-25 16-17 16-21 17-18 18-19 19-20 20-21 23-24 23-28 24-25 25-26
26-27 27-28 29-30 29-33
normalized bonds :
4-5 4-6 5-9 6-7 7-8 8-9
isolated ring systems :
containing 1 : 10 : 16 : 23 :

G1:CH,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:CLASS 30:CLASS 33:CLASS

EXR: Michael Barker

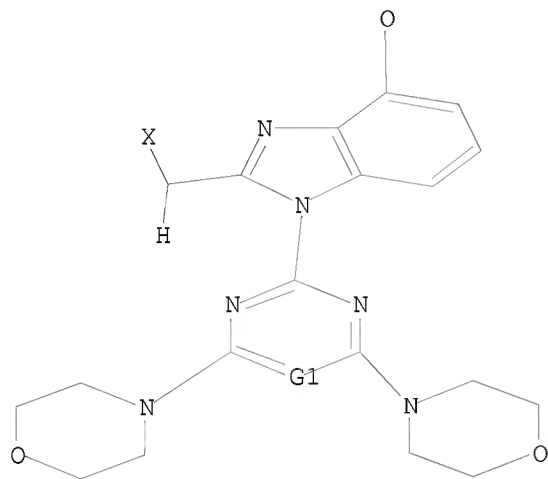
10594994

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 CH,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 15:51:37 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 163 TO ITERATE

100.0% PROCESSED 163 ITERATIONS

21 ANSWERS

SEARCH TIME: 00.00.01

L2 21 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

191.54

191.76

FILE 'CAPLUS' ENTERED AT 15:51:39 ON 16 FEB 2010

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FILE COVERS 1907 - 16 Feb 2010 VOL 152 ISS 8
FILE LAST UPDATED: 15 Feb 2010 (20100215/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CPlus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12

L3 5 L2

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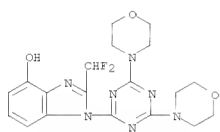
EXR: Michael Barker

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L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2007.1176627 CAPLUS
 DOCUMENT NUMBER: 147:440304
 TITLE: Treatment of prostate cancer, melanoma or hepatic cancer
 INVENTOR(S): Yaguchi, Shinichi; Koshimizu, Ichiro; Yoshimi, Hisashi; Matsuno, Toshiyuki; Watanabe, Tetsuo; Tsuchida, Yoshio; Saitoh, Kenichi
 PATENT ASSIGNEE(S): Zenyaku Kogyo Kabushiki Kaisha, Japan
 SOURCE: U.S. Pat. Appl. Publ., 8pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRIORITY APPLN. INFO.:			US 2006-404078	20060414

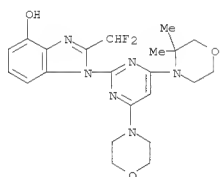
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 147:440304
 IT 685111-07-3P 866392-54-3P 866392-55-4P
 909300-06-7P 952481-20-8P 952481-21-9P
 952481-22-0P 952481-23-1P 952481-24-2P
 RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (treatment of prostate cancer, melanoma or hepatic cancer)
 RN 685111-07-3 CAPLUS
 CN 1H-Benzimidazol-4-ol, 2-(difluoromethyl)-1-[4,6-di-4-morpholinyl-1,3,5-triazin-2-yl]- (CA INDEX NAME)



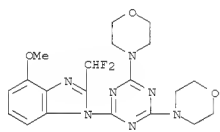
RN 866392-54-3 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

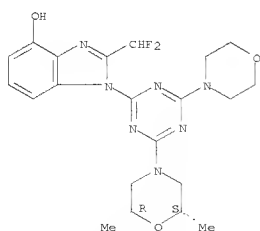


RN 952481-20-8 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4,6-di-4-morpholinyl-1,3,5-triazin-2-yl]-4-methoxy- (CA INDEX NAME)



RN 952481-21-9 CAPLUS
 CN 1H-Benzimidazol-4-ol, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-1,3,5-triazin-2-yl]-, rel- (CA INDEX NAME)

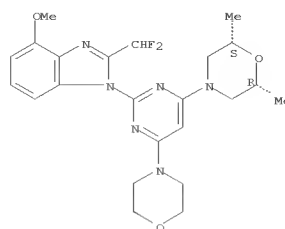
Relative stereochemistry.



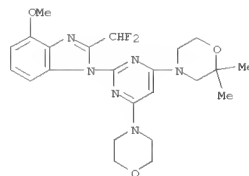
RN 952481-22-0 CAPLUS

EXR: Michael Barker

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



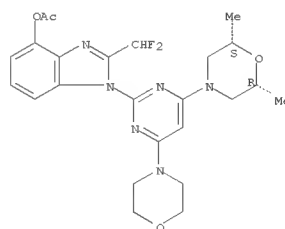
RN 866392-55-4 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)



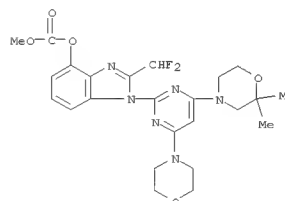
RN 909300-06-7 CAPLUS
 CN 1H-Benzimidazol-4-ol, 2-(difluoromethyl)-1-[4-[(3,3-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
 CN 1H-Benzimidazol-4-ol, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-, 4-acetate, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 952481-23-1 CAPLUS
 CN Carbonic acid, 2-(difluoromethyl)-1-[4-[(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-1H-benzimidazol-4-yl methyl ester (CA INDEX NAME)

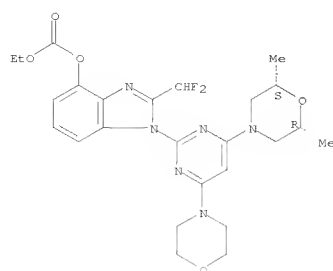
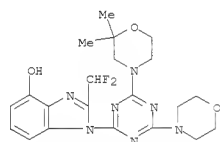
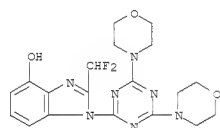
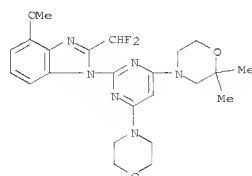


RN 952481-24-2 CAPLUS
 CN Carbonic acid, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-1H-benzimidazol-4-yl ethyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.

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L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
(Immunosuppressive agents and anti-tumor agents comprising heterocycliccomps.)
RN 475111-21-8 CAPLUS
CN 1H-Benzimidazole-4-ol,
2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-
6-(4-morpholinyl)-1,3,5-triazin-2-yl]- (CA INDEX NAME)RN 685111-07-3 CAPLUS
CN 1H-Benzimidazole-4-ol, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-1,3,5-
triazin-2-yl]- (CA INDEX NAME)RN 866392-55-4 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(
4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)RN 866392-56-5 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)

EXR: Michael Barker

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:945639 CAPLUS
DOCUMENT NUMBER: 145:328368
TITLE: Immunosuppressive agent and anti-tumor agent
comprising heterocyclic compound as active ingredient
INVENTOR(S): Haruta, Kazuhiko; Yaguchi, Shinichi; Matsuno,
Toshiyuki; Tsuchida, Yoshio; Watanabe, Tetsuo;
Yoshioka, Kimitomo; Yui, Ryogo
PATENT ASSIGNEE(S): Zenyaku Kogyo Kabushikikaisha, Japan
SOURCE: PCT Int. Appl., 102pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006095906	A1	20060914	WO 2006-JP304937	20060313
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LF, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
FW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2006221285	A1	20060914	AU 2006-221285	20060313
CA 2599879	A1	20060914	CA 2006-2599879	20060313
EP 1864665	A1	20071212	EP 2006-729002	20060313
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
BR 2006008291	A2	20091222	BR 2006-0241	20060313
US 20080113987	A1	20080515	US 2007-047597	20070830
IN 2007KN03220	A	20080104	IN 2007-KN03220	20070831
CN 101137382	A	20080305	CN 2006-80007888	20070911
KR 2007113285	A	20071128	KR 2007-723354	20071011
PRIORITY APPLN. INFO.:				
			WO 2006-JP304937	W 20060313
			WO 2006-JP4937	A1 20060313

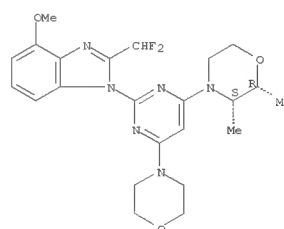
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 145:328368
IT 475111-21-8P 685111-07-3P 866392-55-4P
866392-56-5P 866392-57-6P 866392-62-3P
909300-04-5P 909300-05-6P 909300-06-7P

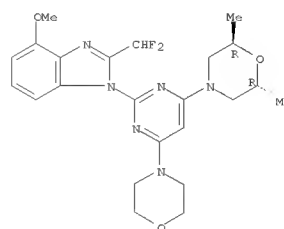
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

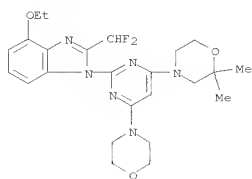
RN 866392-57-6 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

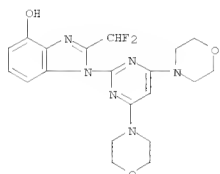
RN 866392-62-3 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

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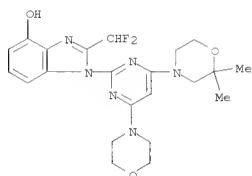
L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RN 909300-04-5 CAPLUS
CN 1H-Benzimidazole-4-ol, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-2-pyrimidinyl]- (CA INDEX NAME)



RN 909300-05-6 CAPLUS
CN 1H-Benzimidazole-4-ol, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-2-pyrimidinyl]- (CA INDEX NAME)



L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1103774 CAPLUS
DOCUMENT NUMBER: 143:367324
TITLE: Preparation of 2-benzimidazolyl-4,6-dimorpholinylpyrimidine and 2-benzimidazolyl-4,6-dimorpholinyltriazine

derivatives

as antitumor agents
Kawashima, Seiichiro; Matsuno, Toshiyuki; Yaguchi, Shinichi; Tsuchida, Yoshio; Saitoh, Kenichi;

Watanabe,

Tetsuo
Zenyaku Kogyo Kabushiki Kaisha, Japan
PCT Int. Appl., 19 pp.

SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005095389	A1	20051013	WO 2005-JP6111	20050330
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2005227954	A1	20051013	AU 2005-227954	20050330
CA 2561406	A1	20051013	CA 2005-2561406	20050330
EP 1741714	A1	20070110	EP 2005-727794	20050330
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 1972935	A	20070530	CN 2005-80010215	20050330
CN 100532380	C	20090826		
KR 2007008670	A	20070117	KR 2006-722675	20061030
US 20080287431	A1	20081120	US 2007-2534394	20070117

PRIORITY APPLN. INFO.:
WO 2005-JP6111 W 20050330

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:367324

IT 866392-54-3P 866392-55-4P 866392-56-5P

866392-57-6P 866392-58-7P 866392-59-8P

866392-60-1P 866392-61-2P 866392-62-3P

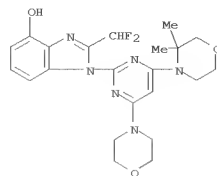
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of
2-benzimidazolyl-4,6-dimorpholinylpyrimidine
and 2-benzimidazolyl-4,6-dimorpholinyltriazine derivs. as antitumor

EXR: Michael Barker

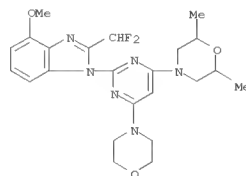
L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 909300-06-7 CAPLUS
CN 1H-Benzimidazole-4-ol, 2-(difluoromethyl)-1-[4-(3,3-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]- (CA INDEX NAME)



IT 909300-31-8
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(immunosuppressive agents and anti-tumor agents comprising heterocyclic compds.)

RN 909300-31-8 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,6-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)

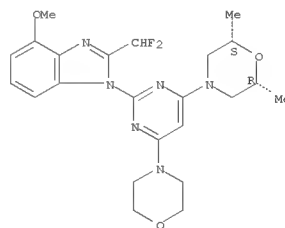


OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
(9 CITINGS)
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

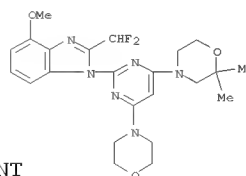
L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

agents)
RN 866392-54-3 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 866392-55-4 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)



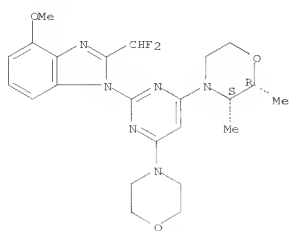
RN 866392-56-5 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,3S)-2,3-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

INSTANT

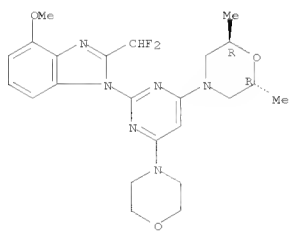
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L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



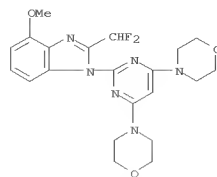
RN 866392-57-6 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6R)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.



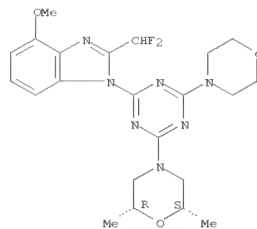
RN 866392-58-7 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(4,6-di-4-morpholinyl-2-pyrimidinyl)-4-methoxy- (CA INDEX NAME)

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



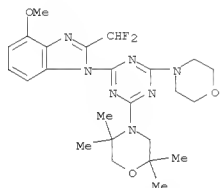
RN 866392-59-8 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-1,3,5-triazin-2-yl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

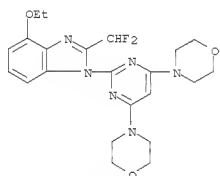


RN 866392-60-1 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-4-methoxy-1-[4-(4-morpholinyl)-6-(2,2,5,5-tetramethyl-4-morpholinyl)-1,3,5-triazin-2-yl]- (CA INDEX NAME)

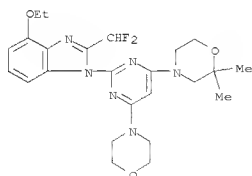
L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RN 866392-61-2 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(4,6-di-4-morpholinyl-2-pyrimidinyl)-4-ethoxy- (CA INDEX NAME)



RN 866392-62-3 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-ethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS

EXR: Michael Barker

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

10594994

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

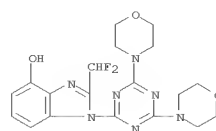
ACCESSION NUMBER: 2004:370924 CAPLUS
DOCUMENT NUMBER: 140:375193
TITLE: Preparation of heterocyclic compounds and antitumor drugs containing the same as the active ingredient
INVENTOR(S): Kawashima, Seichiro; Matsuno, Toshiyuki; Yaguchi, Shinichi; Tsuchida, Yoshio; Saito, Kenichi; Sasahara, Hiroya; Watanabe, Tetsuo
PATENT ASSIGNEE(S): Zenyaku Kogyo Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037812	A1	20040506	WO 2003-JP13589	20031024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GR, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2503451	A1	20040506	CA 2003-2503451	20031024
AU 2003275630	A1	20040513	AU 2003-275630	20031024
EP 1557415	A1	20050727	EP 2003-758850	20031024
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1708495	A	20051214	CN 2003-80102030	20031024
CN 100402523	C	20080716		
US 2004004440	A1	20060112		20050422
US 7153853	B2	20061226		
US 7153853	A1	20090605	HK 2006-106828	20060614
			JP 2002-311086	A 20021025
PRIORITY APPLN. INFO.:			WO 2003-JP13589	W 20031024

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 140:375193
IT 695111-07-3P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 2-(1-benzimidazolyl)-4-morpholino-1,3,5-triazine or -pyrimidine derivs. as antitumor drugs)
RN 695111-07-3 CAPLUS
CN 1H-Benzimidazol-4-ol, 2-(difluoromethyl)-1-[4,6-di-4-morpholinyl-1,3,5-triazin-2-yl]- (CA INDEX NAME)

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
REFERENCE COUNT: 3 (9 CITINGS)
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:849619 CAPLUS
DOCUMENT NUMBER: 137:370113
TITLE: Preparation of heterocyclic compounds as antitumor agents
INVENTOR(S): Kawashima, Seichiro; Matsuno, Toshiyuki; Yaguchi, Shinichi; Sasahara, Hiroya; Watanabe, Tetsuo
PATENT ASSIGNEE(S): Zenyaku Kogyo Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

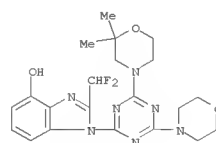
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002088112	A1	20021107	WO 2002-JP4227	20020426
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GR, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2445395	A1	20021107	CA 2002-2445395	20020426
AU 2002253619	A1	20021111	AU 2002-253619	20020426
AU 2002253619	B2	20070517		
EP 1389617	A1	20040218	EP 2002-722829	20020426
EP 1389617	B1	20070103		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1538967	A	20041020	CN 2002-812617	20020426
CN 1310907	C	20070418		
JP 3836436	B2	20061025	JP 2002-585412	20020426
AT 350376	T	20070115	AT 2002-722829	20020426
PT 1389617	E	20070430	PT 2002-722829	20020426
ES 2280530	T3	20070916	ES 2002-722829	20020426
US 20040116421	A1	20040617	US 2003-475094	20031024
US 7071189	B2	20060704		
US 20060247232	A1	20061102	US 2006-478647	20060709
US 7307077	B2	20071211		
PRIORITY APPLN. INFO.:			JP 2001-132250	A 20010427
			WO 2002-JP4227	W 20020426
			US 2003-475094	A1 20031027

OTHER SOURCE(S): MARPAT 137:370113
IT 475111-21-8P, 2-(2-Difluoromethyl-4-hydroxybenzimidazol-1-yl)-4-(2,2-dimethylmorpholino)-6-morpholino-1,3,5-triazine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of heterocyclic compds. as antitumor agents)
RN 475111-21-8 CAPLUS

EXR: Michael Barker

L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

1H-Benzimidazol-4-ol, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-1,3,5-triazin-2-yl]- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT